

Best Available Copy

Appendix A (page 1 of 3)

MARG.G.....ELS.GV.....RG.....AAA.....APISLG						Consensus #1
10	20	30	40	50		
1	MARGDGGQLA-----ELSAGV-----RG-----AAAVVDHVAPISLG					BB1162USNASEqIdNo2
1	MARGSGAGGGGGGGGLELSVGVGGGARGGGGGEAAAVEATAAPISLG					BB1162USNASEqIdNo26
1	MARGDGEL-----ELSVGV-----RGTGGAAAAAADHVAPISLG					GI 5771354
RLIL.GMVAGGVQYGWALQLSLTPYVQTLGLSHALTSMWICGPIAG.V						Consensus #1
60	70	80	90	100		
33	RLILAGMVAGGVQYGWALQLSLTPYVQTLGLSHALTSMWICGPIAGLV					BB1162USNASEqIdNo2
51	RLILSGMVAGGVQYGWALQLSLTPYVQTLGLSHALTSMWICGPIAGMV					BB1162USNASEqIdNo26
36	RLILAGMVAGGVQYGWALQLSLTPYVQTLGLSHALTSMWICGPIAGLV					GI 5771354
VQP.VGLYSDRCT..WGRRRP.IL.GC.LIC.AV.V.GFS.DIG.A.GDT						Consensus #1
110	120	130	140	150		
83	VQPLVGLYSDRCTSRWGRRRRPFILTGCMCLICVAVIVVGFSSDIGAALGDT					BB1162USNASEqIdNo2
101	VQPCVGLYSDRCTSKWGRRRRPFILTGCVLICLAVVVIIGFSA DIGYAMGDT					BB1162USNASEqIdNo26
86	VQPLVGLYSDRCTARWGRRRRPFILIGCMCLICLAVIVVGFSSDIGAALGDT					GI 5771354
KE.CS.YHG.RWHAAIYVVLGFWLLDFSNTVQGPARA.MADL...HGP.						Consensus #1
160	170	180	190	200		
133	KEHCSLYHGPRWHAAIYVVLGFWLLDFSNTVQGPARAMMADLCDHHGPGS					BB1162USNASEqIdNo2
151	KEHCSLYHGPRWHAAIYVVLGFWLLDFSNTVQGPARAMMADLJGRHGP					BB1162USNASEqIdNo26
136	KEHCSLYHGPRWHAAIYVVLGFWLLDFSNTVQGPARAMMADLJGRHGP					GI 5771354



Appendix A (page 2 of 3)

	.ANSIFCSWMA.GNIIIGYSSGSTNNWHKWF.FL.T.ACCEACANLKGAF.L	Consensus #1
	210 220 230 240 250	
183	AANSIFCSWMA.LGNIIIGYSSGSTNNWHKWF.FL.K.TS.ACCEACANLKGAF.L	BB1162USNASEqIdNo2
201	TANSIFCSWMA.MGNIIIGYSSGSTNNWHKWF.FL.K.TR.ACCEACANLKGAF.L	BB1162USNASEqIdNo26
186	AANSIFCSWMA.LGNIIIGYSSGSTNNWHKWF.FL.L.TN.ACCEACANLKGAF.L	GI 5771354
	VAV.FL..CL..TL..FA.EVP...N..LPT.K....E.E..GPLAVLKG	Consensus #1
	260 270 280 290 300	
233	VAVFVLCLTVTLIFAKEVPYRANENLPTTKAGGEVETEPTGPLAVLKG	BB1162USNASEqIdNo2
251	VAVIFLSLCLVITLIFAKEVPFKGNAALPT-KSNEPAEPFGTGPLAVLKG	BB1162USNASEqIdNo26
236	VAVFVLVCLTVTLFFANEVFPYRGQNLP-T-KANGEVETEPTGPLAVLKG	GI 5771354
	F..LP.GMP.SVL.VT..TWLSWFFPFI.LYD.TDWMGREI.YHGDPKG...QI.	Consensus #1
	310 320 330 340 350	
283	FKDLP.PGMP.SV.LLV.TA.I.TWLSWFFPFI.LYD.TDWMGREI.YHGDPKGSNAQ.I.S	BB1162USNASEqIdNo2
300	FRNLPTGMP.SV.LLV.TGL.TWLSWFFPFI.LYD.TDWMGREI.YHGDPKGTDPQ.I.E	BB1162USNASEqIdNo26
285	FKNLPTGMP.SV.LLV.TGL.TWLSWFFPFI.LYD.TDWMGREI.YHGDPKGSNAQ.I.S	GI 5771354
	AF..GVR.G.FGL.LLNS..LGFSSFL.IEP.MCR.KV.GPR.VVW.VT.SNF.VC.A	Consensus #1
	360 370 380 390 400	
333	AFNEGVR.VGAF.GLL.LLNS.V.I.LGFSSFL.IEP.MCR.KV.GPR.VVW.VT.SNFMVC.VA	BB1162USNASEqIdNo2
350	AFNQGV.R.AGAF.GLL.LLNS.T.VLGFSSFL.IEP.MCR.KV.GPR.VVW.VT.SN.FLV.C.I.A	BB1162USNASEqIdNo26
335	AFDEGV.R.V.GS.FGL.LLNS.T.VLGFSSFL.IEP.MCR.KV.GPR.VVW.VT.SN.FLV.C.VA	GI 5771354

Appendix A (page 3 of 3)

	MAATALISFWSL.D.HG.VQ.AITA..SIKAVCLVLF AFLGVPLA.LYSV	Consensus #1
	410 420 430 440 450	
383	MAATALISFWSLRDYHGYVQDAITANASIKAVCLVLF AFLGVPLA.LYSV	BB1162USNASEqIdNo2
400	MAATALISFWSLKDHFHGTQKAITADKSIKAVCLVLF AFLGVPLA.LYSV	BB1162USNASEqIdNo26
385	MAATALISFWSLKDYGHYVQDAITASTSIKAVCLVLF AFLGVPLA.LYSV	GI 5771354
	PFAVTAQLAAT.GGGQGGLCTGVNLNISIVIPQV.IALGAGPWD.LFGKGNI	Consensus #1
	460 470 480 490 500	
433	PFAVTAQLAATRGGGQGLCTGVNLNISIVIPQV.IALGAGPWDALFGKGNI	BB1162USNASEqIdNo2
450	PFAVTAQLAATRGGGQGLCTGVNLNISIVIPQVIALGAGPWARDALFGKGNI	BB1162USNASEqIdNo26
435	PFAVTAQLAATKGGGQGLCTGVNLNISIVIPQVIALGAGPWARDALFGKGNI	GI 5771354
	PAFG.AS.FAL.GGV.G.FLLPKISKRRQF..VS..GGH	Consensus #1
	510 520 530	
483	PAFGVASAFALVGGVVGVFFLLPKISKRRQFRVAVS-AGGH	BB1162USNASEqIdNo2
500	PAFGLASGFALIGGVAGIFLLPKISKRRQFWSVSMGGGH	BB1162USNASEqIdNo26
485	PAFGVASGFALIGGVGVFFLLPKISKRRQFRVAVS-AGGH	GI 5771354

Consensus #1: When all match the residue on the Consensus show the residue of the Consensus, otherwise show ‘ ’

Shade (with black at 40% fill) residues that match the consensus named “Consensus #1” exactly.

Conserved cysteine residues are indicated by boxes.